

FLTG, Incorporated

1024 GULF PUMP ROAD, CROSBY, TEXAS 77532

PHONE 713-328-1648 FAX 713-328-2996

August 11, 1994

Mr. Neil Pflum US EPA, Region 6 1445 Ross Avenue Dallas, Texas 75202-2733

Re: Sampling Results, Risk Analysis, Riverdale Domestic Wells

Dear Neil:

As per our recent phone conversation, I have attached the most recent data on the Riverdale potable wells (RD-1 & RD-2) that are sampled each month. RD-1 consistently shows no organic chemicals or fecal coliforms; RD-2 shows low levels of vinyl chloride and significant levels of fecal coliforms. FLTG, Inc. has been providing bottled drinking water to the residents who use the water from RD-2 since the low levels of vinyl chloride in RD-2 became known.

The data on RD-1 and RD-2 has been presented to the EPA, the TNRCC, the local residents, and the Texas Department of Health (see attached June 10, 1994 letter to John Villanachi).

Based on discussions with EPA, TNRCC, and the Texas Department of Health (see attached June 22, 1994, letter to R.L. Sloan and June 27, 1994, letter to John Villanachi), FLTG, Inc. developed the attached work plant (July 6, 1994) to develop data to evaluate potential inhalation risk. The results of the sampling and subsequent risk assessment are presented in the attached July 21, 1994, memo to Dick Sloan. The inhalation risk during showering due to vinyl chloride is 5.4 X 10⁻⁷ which is below the allowable level of 1.0 X 10⁻⁶. The potential inhalation risk due to a washing machine or a dishwasher is insignificant when compared to the potential risk during showering.

No action is required to reduce the potential inhalation risk to the residents using RD-2 water.

Water well to replace RD-2; this would improve flow control in the affected aquifer, and this would provide water free of vinyl chloride and free of fecal coliforms to the residents who now use RD-2 water.

Mr. Neil Pflum August 11, 1994 Page Two

Please contact me if you have any questions or comments.

Sincerely,

R.L. Sloan

RS/rc

Attachments

c: Judith Black
John Villanachi
James Sher
John Mcleod



French Ltd. Project

	(b) (6)	Addres	(b) (6)											
	Detectio	ederal DW	5/11/94	9/15/94]	10/13/94	5/11/94	9/15/94	10/13/94	5/11/94	9/15/94	10/13/94	5/11/94	9/15/94	10/13/94
	Limit	Standard	RD-3	RD-3	RD-3	RD-4	RD-4	RD-4	RD-5	RD-5	RD-5	RD-6	RD-6	RD-6
Chloromethane	2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	-2	ND	ND	ND	ND	ND	ND	סא	ND	ND	ND	ND	ND
Chloroethane	2	^10	ND	ND	ND	ND	ND.	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1	5	ND	300	ND	ND	8	ND	ND		ND	ND	2	ND
Acetone	2	^3500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	1	^3500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethene	1	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1 1	^5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene(Total)	1	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	2	1700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1	^200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	1 1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	2	135000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1 1	i	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	⁻ 5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene] 1	^5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	1 1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	2	1700	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND
2-Hexanone	2	^5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1	^5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1	-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1	^700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	1_1_	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND_	ND	ND	ND
Fecal Coliform	1 0	0		0	0		19	0		0	0	<u>-</u>	130	- 0
		L	I				10		I			l		

Values in ug/L

^{* =} FLTG GW cleanup criteria



French Ltd. Project

		Address =>	(b) (6)							
	Detect. Limit	Federal DW*	5/11/94	5/24/94	5/11/94	5/24/94	5/11/94	5/11/94	5/11/94	5/11/94
	5-11 sample	Standard	RD-1	RD-1	RD-2	RD-2	RD-3	RD-4	RD-5	RD-6
Chloromethane	2		ND							
Bromomethane	2		ND							
Vinyl chloride	2	^2	ND	ND	7	8	ND	ND	ND	ND
Chloroethane	2	^10	ND							
Methylene Chloride	1	5	ND							
Acetone	2	^3500	ND	ND	ND	ND	ND ·	ND	ND	ND
Carbon disulfide	1	^3500	ND							
1,1-Dichloroethene	1	7	ND							
1,1-Dichloroethane	1	^5	ND							
1,2-Dichloroethene(Total)	1	70	ND	ND	2	ND	ND	ND	ND	ND
Chloroform	1	100	ND							
1,2-Dichloroethane	1	5	ND	ND		ND	ND	ND	ND	ND
2-Butanone	2	^1700	ND							
1,1,1-Trichloroethane	1	^200	ND							
Carbon Tetrachloride	1	5	ND							
Vinyl acetate	2	^35000	ND							
Bromodichloromethane	1		ND							
1,2-Dichloropropane	1	^5	ND							
cis-1,3-Dichloropropene	1	^5	ND							
Trichloroethene	1	5	ND							
Dibromochloromethane	1		ND							
1,1,2-Trichloroethane	1	5	ND							
Benzene	1	5	ND							
trans-1,3-Dichloropropene	1		ND							
2-Chloroethylvinyl ether	2		ND							
Bromoform	1		ND							
4-Methyl-2-pentanone	2	^1700	ND							
2-Hexanone	2	^5	ND							
Tetrachloroethene	1	^5	ND							
1,1,2,2-Tetrachloroethane	1 1	^2	ND							
Toluene	1	1000	ND							
Chlorobenzene	1	^700	ND							
Ethylbenzene	1	700	ND							
Styrene	1	^100	ND							
Xylene (total)	1 1	10000	ND							

Values in ug/L

^{* =} Fed. DW Std except where denoted by "^" symbol it is FLTG GW cleanup criteria

Riverdale Well Samples

French Ltd. Project

	(b) (6) A	ddress =>		(b) (6)		(b) (6)			
	Detect. Limit	Federal DW*	5/11/94	5/24/94	6/23/94	5/11/94	5/24/94	6/23/94	
		Standard	RD-1	RD-1	RD-1	RD-2	RD-2	RD-2	
Chloromethane	2		ND	ND	ND	ND	ND	ND	
Bromomethane	2		ND	ND	ND	ND	ND	ND	
Vinyl chloride	2	^2	ND	ND	ND	7	8	5	
Chloroethane	2	^10	ND	ND	ND	ND	ND	ND	
Methylene Chloride	1	5	ND	ND	0.9	ND	ND	ND	
Acetone	2	^3500	ND	ND	ND	ND	ND	ND	
Carbon disulfide	1	^3500	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	1	7	סא	ND	ND	ND	ND	ND	
1,1-Dichloroethane	1	^5	ND	ND	ND	ND	ND	0.6	
1,2-Dichloroethene(Total)	1 1	70	ND	ND	ND	2	ND	ND	
Chloroform	1	100	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	1	5	ND	ND	ND	1	ND	0.9	
2-Butanone	2	^1700	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	1	^200	ND	ND	ND	ND	ND	ND	
Carbon Tetrachloride	1 1	5	ND	ND	ND	ND	ND	ND	
Vinyl acetate	2	^35000	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	1		ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	1 1	^5	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	1 1	^5	ND	ND	ND	ND	ND	ND	
Trichloroethene	1	5	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	1		ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	1	5	ND	ND	ND	ND	ND	ND	
Benzene	1	5	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	1		ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	2		ND	ND	ND	ND	ND	ND	
Bromoform	1		ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone	2	^1700	ND	ND	ND	ND	ND	ND	
2-Hexanone	2	^5	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	1 1	^5	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	1	^2	ND	ND	ND	ND	ND	ND	
Toluene	1 1	1000	ND	ND	ND	ND	ND	ND	
Chlorobenzene	1	^700	ND	ND	ND	ND	ND	ND	
Ethylbenzene	1	700	ND	ND	ND	ND	ND	ND	
Styrene	1	^100	ND	ND	ND	ND	ND	ND	
Xylene (total)	1 1	10000	ND	ND	ND	ND	ND	ND	

Fecal Coliform (colonies per 100 ml)	0 200+
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Note: Methylene Chloride is a common lab artifact/contaminant.

^{* =} Fed. DW Std except where denoted by "" symbol it is FLTG GW cleanup criteria

Riverdale Well Samples

French Ltd. Project

	(b) (6)	Address	(b) (6)				(b) (6)			
	Detect	Federal DW*	5/11/94	5/24/94	6/23/94	7/15/94	5/11/94	5/24/94	6/23/94	7/15/94
	Limit	Standard	RD-1	RD-1	RD-1	RD-1	RD-2	RD-2	RD-2	RD-2
Chloromethane	2		ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	2		ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	^2	ND	ND	ND	ND	7.30	`` 8 %,`		ું 6 જ
Chloroethane	2	^10	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1	5	ND	ND	0.9	ND	ND	ND	ND	ND
Acetone	2	^3500	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	1	^3500	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1	7	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1	^5	ND	ND	ND	ND	ND	ND	0.6	ND
1,2-Dichloroethene(Total)	1	70	ND	ND	ND	ND	2 %	. ND	ND	્ 2
Chloroform	1	100	ND	ND	ND	ND	ND	ND	ND	ND "
1,2-Dichloroethane	1	5	ND	ND	ND	ND		ND	0.9	் 0.5
2-Butanone	2	^1700	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1	^200	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	1	5	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	2	^35000	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	⁻ 5	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	1	^5	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	1		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	5	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	1		ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	2		ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	1		ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	2	-1700	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	2	^5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1	^5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1	~2	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1	1000	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1	^700	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	700	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	1	^100	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	1	10000	ND	ND	ND	ND	ND	ND	ND	ND

Fecal Coliform (colonies per 100 ml)	0 0	200+ 200+

Values in ug/L

^{* =} Fed. DW Std except where denoted by "^" symbol it is FLTG GW cleanup criteria